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NOTICE OF ALLOWANCE AND FEE(S) DUE

027765

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04/09/2004

NAIPO (NORTH AMERICA INTERNATIONAL PATENT OFFICE) P.O. BOX 506 MERRIFIELD, VA 22116

EXAMINER

AUDUONG, GENE NGHIA

ART UNIT

PAPER NUMBER

2818

DATE MAILED: 04/09/2004

| | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|-------------|----------------------|---------------------|------------------|
| • | 10/604,508 | 07/28/2003 | Shih-Huang Huang | MTKP0053USA | 1507 |

TITLE OF INVENTION: PRE-CHARGE AND SENSE-OUT CIRCUIT FOR DIFFERENTIAL TYPE ROM

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO | \$1330 | \$300 | \$1630 | 07/09/2004 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE STATUTORY PERIOD CANNOT BE EXTENDED. REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 027765 7590 04/09/2004 NAIPO (NORTH AMERICA INTERNATIONAL PATENT Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope OFFICE) addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. P.O. BOX 506 MERRIFIELD, VA 22116 (Depositor's name) (Signature) (Date) CONFIRMATION NO. ATTORNEY DOCKET NO. **FILING DATE** FIRST NAMED INVENTOR APPLICATION NO. MTKP0053USA 1507 10/604,508 07/28/2003 Shih-Huang Huang TITLE OF INVENTION: PRE-CHARGE AND SENSE-OUT CIRCUIT FOR DIFFERENTIAL TYPE ROM **PUBLICATION FEE** TOTAL FEE(S) DUE DATE DUE APPLN. TYPE **SMALL ENTITY ISSUE FEE** \$300 \$1630 07/09/2004 NO \$1330 nonprovisional **EXAMINER ART UNIT CLASS-SUBCLASS** 365-203000 AUDUONG, GENE NGHIA 2818 1. Change of correspondence address or indication of "Fee Address" (37) 2. For printing on the patent front page, list (1) the CFR 1.363). names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single □ Change of correspondence address (or Change of Correspondence firm (having as a member a registered attorney or Address form PTO/SB/122) attached. agent) and the names of up to 2 registered patent ☐ "Fee Address" indication (or "Fee Address" Indication form attorneys or agents. If no name is listed, no name PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer will be printed. Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE • corporation or other private group entity Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual • government 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ A check in the amount of the fee(s) is enclosed. ☐ Issue Fee □ Payment by credit card. Form PTO-2038 is attached. ☐ Publication Fee ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to ☐ Advance Order - # of Copies __ Deposit Account Number (enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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UNITED STATES DEPARTMENT OF COMMERCI United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

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| 10/604,508 | 07/28/2003 | | Shih-Huang Huang | MTKP0053USA | 1507 | | |
| 027765 | 7590 | 04/09/2004 | | EXAM | INER | | |
| NAIPO (NORTH AMERICA INTERNATIONAL PATENT | | | | AUDUONG, C | AUDUONG, GENE NGHIA | | |
| OFFICE) P.O. BOX 506 | | | | ART UNIT | PAPER NUMBER | | |
| MERRIFIELD, | VA 22116 | | | 2818 | | | |
| | | | | DATE MAILED: 04/09/200 | 4 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

| | Application No. | Applicant(s) | |
|---|--|---|-------------------------|
| | 10/604,508 | HUANG, SHIH-HUAN | G |
| Notice of Allowability | Examiner | Art Unit | |
| | Gene N Auduong | 2818 | |
| The MAILING DATE of this communication appeals of the second allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Roof the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED i) or other appropriate comm IGHTS. This application is | n this application. If not included unication will be mailed in due c | d ourse. THIS |
| 1. This communication is responsive to application filed July | <u>28, 2003</u> . | | |
| 2. The allowed claim(s) is/are 1-10. | | | |
| 3. \boxtimes The drawings filed on <u>28 July 2003</u> are accepted by the Ex | xaminer. | | |
| 4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | e been received. e been received in Applicati cuments have been receive | on No ed in this national stage applicati | |
| 5. A SUBSTITUTE OATH OR DECLARATION must be submined informal patent application (PTO-152) which give | | | OTICE OF |
| 6. CORRECTED DRAWINGS (as "replacement sheets") mu | st be submitted. | , | |
| (a) I including changes required by the Notice of Draftsper | son's Patent Drawing Revie | w (PTO-948) attached | |
| 1) hereto or 2) to Paper No./Mail Date | _• | | |
| (b) including changes required by the attached Examiner Paper No./Mail Date | 's Amendment / Comment o | or in the Office action of | |
| Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in | 1.84(c)) should be written on the header according to 37 C | the drawings in the front (not the FR 1.121(d). | back) of |
| 7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT | Sit of BIOLOGICAL MAT FOR THE DEPOSIT OF BI | ERIAL must be submitted. NIOLOGICAL MATERIAL. | ote the |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) | 5. □ Notice of I | nformal Patent Application (PTC |)-152) |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | _ | Summary (PTO-413), | |
| 3. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date | | ./Mail Date s Amendment/Comment | |
| 4. Examiner's Comment Regarding Requirement for Deposit | 8. 🗌 Examiner's | s Statement of Reasons for Allov | wance |
| of Biological Material | 9. 🔲 Other | | |
| | | Gene N Auduong Primary Examiner Art Unit: 2818 | |

Application/Control Number: 10/604,508 Page 2

Art Unit: 2818

DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Taiwan on April 4, 2003. It is noted, however, that applicant has not filed a certified copy of the Taiwan 092107816 04/04/2003 application as required by 35 U.S.C. 119(b).

Allowable Subject Matter

- 2. Claims 1-10 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or fairly suggest, in addition to other element in the claim, claiming a pre-charge and sense out circuit of a differential type ROM having a charge sharing module electrically connected to the first and the second data lines for pre-charging the first and the second data lines, and for sharing electrical charges stored in the charge sharing module with the first and the second data lines according to a second control signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gene N Auduong whose telephone number is (571) 272-1773.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GA March 22, 2004 P

Gene N Auduong
Primary Examiner
Art Unit 2818

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